

METHOD OF CONTROLLING THE FLOW IN A FLOW SYSTEM

A B S T R A C T

A method and flow system for controlling the flow of a liquid
5 in a flow system, the liquid flow comprising particles and being led into a channel thereof. The method comprises the steps of enveloping the liquid flow by a flow of carrier liquid, hydrodynamically focussing the particles in the liquid flow providing a measurement signal of the liquid flow from an observation area in the channel, and dividing the liquid flow at a branching
10 point into two or more outlets in response to the measurement signal. The division of the liquid comprises introducing a control liquid from at least one control channel at a merging point or merging area in the channel. The amount of control liquid is controlled by at least one electro-kinetic pump, the pump effect of which is controlled in response to the measurement signal.